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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/544,890	05/16/2006	Daejoon Cha	126587-0032	7303
	7590 08/29/200 CMAN HAM & BERN	EXAMINER		
1700 DIAGON.		CASCA, FRED A		
SUITE 300 ALEXANDRIA	A, VA 22314		ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE
			08/29/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Α	pplication No.	Applicant(Applicant(s)			
		1	0/544,890	CHA ET AL				
		E	xaminer	Art Unit				
			RED A. CASCA	2617				
Period fo	The MAILING DATE of this communic or Reply	cation appear	s on the cover sheet	with the corresponde	nce address			
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MANSIONS OF THE MANSIO	AILING DATE of 37 CFR 1.136(a) unication. utory period will ap vill, by statute, cau	E OF THIS COMMUN In no event, however, may pply and will expire SIX (6) Mi se the application to become	NICATION. a reply be timely filed ONTHS from the mailing date ABANDONED (35 U.S.C. §	of this communication.			
Status								
1) 又	Responsive to communication(s) filed	l on <i>24 July</i> :	2008					
,			tion is non-final.					
3)		<i>'</i> —		atters, prosecution as	s to the merits is			
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims		·					
- 4)⊠	Claim(s) 1-22 and 24-36 is/are pendi	ng in the app	lication					
	4a) Of the above claim(s) is/are withdrawn from consideration.							
) Claim(s) is/are allowed.							
	6)⊠ Claim(s) <u>1-22 and 24-36</u> is/are rejected.							
·	Claim(s) is/are objected to.							
•	Claim(s) are subject to restrict	ion and/or ele	ection requirement					
		ion ana, or or	oodon roquiromond.					
	on Papers	_						
-	The specification is objected to by the		_					
10)	The drawing(s) filed on is/are:	•	· -	=				
	Applicant may not request that any object				, ,			
_	Replacement drawing sheet(s) including		·		` '			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	⁻ O-948)	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Applicat	ion			

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed July 24, 2008 has been entered.

IDS

2. The information disclosure statement filed July 03, 2008, specifically the documents 2002-522793, 7-110350, 9-15318, 2002-357448, 2003-18082 and 2002-158622 provide only English abstracts. Thus, it has been placed in the application file and considered only to the best of examiner's abilities provided by the drawings and abstracts.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 5-6, 9-12, 14-22, 24-32 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richton (US 6,650,902 B1) in view of Iwatsuki et al (US 2004/0019676 A1) and further in view of Beauregard et al (US 2004/0193373 A1) and still further in view of Chen (US 2004/0119612 A1).

Referring to claim 1, Richton discloses a system for monitoring performance of a position determination of a mobile communication terminal by using a wireless network and an A(Assisted)-GPS (abstract, Figure 1-2 and col. 1, lines 40-55, "GPS"), the system comprising the mobile communication terminal equipped with a GPS module for picking up GPS (Location Based Service) radio wave containing a navigation data from a GPS satellite and transmitting the navigation data to the wireless network (Figures 1-2, col. 1, lines 40-55); a test device, connected to the mobile communication terminal through wired/radio link, for being loaded with and running a LBS wireless network analysis program (Figure 2-3, "location based preference server", "location determination server", "location based controller"), wherein the LBS wireless network analysis program gathers, analyzes and processes data pertinent to the position determination and classifies processed data by at least one classification reference and displays classified data in the format of text or graph (Figures 2-5, "221", col. 2, lines 40-67, col. 9,lines 50-67, "longitude", "latitude"); and a position determination server for receiving the navigation data from the wireless network, converting the navigation data into longitude and latitude coordinate values, transmitting the longitude and latitude coordinate values to the mobile communication terminal and performs transmission and reception of the data pertinent to the position determination (Figures 2-7, "221", col. 2,lines 40-67, col. 9,lines 50-67, "longitude", "latitude").

Richton does not specifically disclose the LBS program analyzes and displays information on GPS satellite, each information on GPS satellite is distinctively indicated with different color, text or pattern on screen displaying more than one concentric circles and 4

directional intersections, the concentric circles consecutively indicating angles ranging from 0 to 90 degrees.

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Iwatsuki discloses displaying network elements on a screen for monitoring purpose (paragraphs 45, 16, and Figures 1-2, 5, 8, and 14-24, "network monitoring system displays the status of various nodes and lines in a network of the present moment on a display screen based on physical network configuration and logical network configuration").

It would have been obvious to one of the ordinary skill in the art at the time of invention to modify the system of Richton by incorporating the teachings of Iwatsuki and consequently providing the system of Richton to have a monitoring system to monitor the network elements in the format claimed by applicant, for the purpose of keeping track of the network elements and to discover and resolve an network problems as soon as they occur.

The combination of Richton/Iwatsuki does not disclose displaying GPS satellites with different text or pattern in the format disclosed by applicant.

Beauregard discloses GPS satellites indicated with different text or pattern displaying more than one concentric circle and 4 directional intersections, the concentric circles consecutively indicating angles ranging from 0 to 90 degrees (Figure 1).

It would have been obvious to one of the ordinary skill in the art at the time of invention to modify the combo of Richton/Iwatsuki in the format claimed by the applicant, for the purpose of monitoring all network elements including the satellites and in such a specific way to clearly observe all network satellites and their operation pattern, and to discover and resolve and possible problems.

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The combination of Richton/Iwatsuki/Beauregard does not specifically disclose a program indicating with a first color the GPS information provided and with a second different color the GPS information acquired at the mobile terminal in the format claimed by applicant.

However, the concept and art of color-coding is conventional in the art, e.g., there are color-coding software that formats information to different colors, usually from black-and-white to colors, as Chen discloses such color-coding concepts.

Chen discloses that GPS information is color-coded in order for subscribers to have a clearer view of images on the display (par. 58 and figures 3, 5 and 9).

It would have been obvious to one of the ordinary skill in the art at the time of invention to modify the combination above in the format claimed, for the purpose of providing an efficient communication system.

Referring to claim 5, the combination of Richton/Iwatsuki/Beauregard/Chen discloses the system of claim 1, wherein the LBS wireless network analysis program analyzes and displays information on the GPS satellite, wherein the information on the GPS satellites is more than one out of an azimuth angle, an elevation angle, a total number of the GPS satellites and an identification number of each satellite included in a "Provide GPS Acquisition" message (Figures 2-7, "221", col. 2,lines 40-67, col. 9,lines 50-67).

Referring to claim 6, the combination of Richton/Iwatsuki/Beauregard/Chen discloses the system of claim 1, wherein the LBS wireless communication analysis program analyzes and displays information on the GPS satellite, wherein the information on the GPS satellite is more

than one out of a total number of the GPS satellites and an identification number of each satellite included in a "Provide Pseudorange Measurement" message (Figures 2-7, "221", col. 2, lines 40-67, col. 9, lines 50-67).

Referring to claim 9, the combination of Richton/Iwatsuki/Beauregard/Chen discloses the system of claim 1, wherein the mobile communication terminal communicates with the test device through an infra-red communication link, Bluetooth communication link or a radio frequency link (Figures 1-2, note that cellular is radio).

Referring to claim 10, the combination of Richton/Iwatsuki/Beauregard/Chen discloses the system of claim 1, wherein the mobile communication terminal exchanges the data pertinent the position determination with the position determination server TCP/IP(Transmission Control Protocol/Internet Protocol) link (Fig. 3, "Internet").

Referring to claim 11, the combination of Richton/Iwatsuki/Beauregard/Chen disclose the system of claim 1, wherein the mobile communication terminal is one out of a PDA, a cellular phone, a PCS(Personal Communication Service) phone, a hand-held PC, a GSM(Global System for Mobile) phone, a W-CDMA phone, an EV-DO phone and a MBS(Mobile Broadband System) phone (Figures 1-2, col. 1, lines 35-50, "cell", note that a cell inherently has a base station and cell phone).

Referring to claim 12, claim 12 defines a method reciting features analogous to the combination features of claim 1 (as rejected above). Thus, the of Richton/Iwatsuki/Beauregard/Chen discloses all elements of claims 12 (please see the rejection of claim 1 above).

Referring to claim 14, the combination of Richton/Iwatsuki/Beauregard/Chen discloses the method of claim 12, wherein at step (a), the test device acquires the LBS messages from the mobile communication terminal through wired and/or radio link (Figures 2-7).

Referring to claim 15, the combination of Richton/Iwatsuki/Beauregard/Chen disclose the method of claim 12, wherein the receiving, analyzing, processing and displaying are preformed by a LBS wireless network analysis program loaded in the test device (Figures 2-7,).

Referring to claim 16, claim 16 defines medium reciting features analogous to the features of claim 1 (as rejected above). Thus, the combination of Richton/Iwatsuki/Beauregard/Chen discloses all elements of claims 16 (please see the rejection of claim 1 above).

Referring to claims 17-22 and 24-25, claims 17-22 and 24-25 define a medium reciting features analogous to the features of claim 3-10 (as rejected above). Thus, the combination of Richton/Iwatsuki/Beauregard/Chen discloses all elements of claims 17-22 and 24-25 (please see the rejection of claim 3-11 above).

Claims 27-32 define a medium reciting features analogous to the features of claim 3-8 (as rejected above). Thus, the combination of Richton/Iwatsuki/Beauregard/Chen discloses all elements of claims 27-32 (please see the rejection of claim 3-8 above).

Referring to claim 36, the combination of Richton/Iwatsuki/Beauregard/Chen discloses the storage medium of claim 22, and further disclose each of the information on GPS satellite is distinctively indicated with different color, text or pattern on a screen displaying more than one concentric circles and 4 directional intersections, the concentric circles consecutively indicating

angles ranging from 0 degree to 90 degrees (please see the rejection of claim 1).

Referring to claim 26, the combination of Richton/Iwatsuki/Beauregard/Chen discloses the storage medium of claim 25. The combination fails to specifically disclose mapping data is made in the format of WGS (World Geodetic System)-84, as claimed by applicant.

It would have been an obvious design choice to design the mapping of data in any format that the applicant has chosen since the applicant has not described any advantages of the WGS system, thus the design of the mapping system being in any other mapping system would have provided the same information as by WGS system.

5. Claims 2-4, 7-8, 13, and 33-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richton (US 6,650,902 B1) in view of Iwatsuki et al (US 2004/0019676 A1) and further in view of Beauregard et al (US 2004/0193373 A1) further in view of Chen (US 2004/0119612 A1) and still further in view of well known prior art (MPEP 2144.03).

Referring to claim 2, the combination of Richton/Iwatsuki/Beauregard/Chen discloses the system of claim 1, wherein the data pertinent to the position determination is a LBS message that

the mobile communication terminal acquires from the position determination server (Figures 2-7, "221", col. 2,lines 40-67, col. 9,lines 50-67).

The combo does not disclose the LBS message being defined in the IS-801-1 standard.

The examiner takes official notice of the fact that IS-801-1 standard is well known in the art.

It would have been obvious to one of the ordinary skill in the art at the time of invention to modify the combo as claimed for the purpose of providing a more efficient and standardized and location service system.

Referring to claim 3, the combination of Richton/Iwatsuki/Beauregard/Chen and wellknown concepts discloses the system of claim 2, and further disclose the LBS wireless network communication network analyzes the LBS message and consequently indicates the time information of transmission or reception of the LBS message, the name of the LBS message, and a type of message (Figures 2-7, "221", col. 2,lines 40-67, col. 9,lines 50-67), and wherein the type of message is whether the LBS message is a forward channel message, a reverse channel message, a request message or a response message (Figures 2-7 and corresponding columns, note that a LBS message is inherently either forward link or reverse link).

Referring to claim 4, the combination of Richton/Iwatsuki/Beauregard/Chen and wellknown concepts discloses the system of claim 3, wherein the name of the LBS message is one of "Request MS Information", "Request Pilot Phase Measurement", "Provide MS Information", "Provide Pilot Phase Measurement", "Request Pseudorange Measurement", "Provide Pseudorange Measurement", "Provide GPS Acquisition Assistance", "Provide GPS Sensitivity Assistance", "Request Location response" (Figures 2-7 and corresponding columns).

Referring to claim 7, the combination of Richton/Iwatsuki/Beauregard/Chen and well-know concepts discloses the system of claim 2, wherein the LBS wireless communication analysis program extracts and displays information on the wireless network, a pseudo random noise code of a radio base station which transmits the LBS message and strength of the pseudo random noise code, from the LBS message (Figures 2-7, "221", col. 2,lines 40-67, col. 9,lines 50-67).

Referring to claim 8, the combination of Richton/Iwatsuki/Beauregard/Chen and well-known concepts discloses the system of claim 7, wherein the wireless network is one out of a CDMA(Code Division multiple Access), GSM(Global system for Mobile communication), CDMA2000 IX, 3X, EV-DO, EV-DV, WCDMA(Wideband CDMA) and PI(Portable Internet) (Figures 1-5).

Referring to claim 13, claim 13 defines a method reciting features analogous to the features of claim 2 (as rejected above). Thus, the combination of Richton/Iwatsuki/Beauregard/Chen and Well-known prior art discloses all elements of claims 13 (please see the rejection of claim 2 above).

Referring to claim 33, the combination of Richton/Iwatsuki/Beauregard/Chen discloses the storage medium of claim 16. The combo does not disclose the storage medium is one out of

a floppy disc, a hard disc, a ZIP disc, a JAZ disc, a compact disc and a DVD(Digital Versatile

Disc).

The examiner takes official notice of the fact that a hard disc, a ZIP disc, a JAZ disc, a

compact disc and a DVD(Digital Versatile Disc) are well known concepts in the art.

It would have been obvious to one of the ordinary skill in the art at the time of invention to

modify the combo for the purpose of using a reliable storing medium.

Referring to claim 34, the combination of Richton/Iwatsuki/Beauregard/Chen

discloses the system of claim 2, wherein the LBS wireless network analysis program analyzes

and displays information on the GPS satellite (Figures 2-7, "221", col. 2,lines 40-67, col. 9,lines

50-67).

The combo does not disclose the information on the GPS satellites is more than one out

of an azimuth angle, an elevation angle, a total number of the GPS

satellites and an identification number of each satellite included in a "Provide GPS Acquisition"

message.

The examiner takes official notice of the fact that GPS satellites being more than one out

of an azimuth angle, an elevation angle, a total number of the GPS satellites and an identification

number of each satellite included in a "Provide GPS Acquisition" message are well known

concepts in the art.

It would have been obvious to one of the ordinary skill in the art at the time of invention to

modify the combo as claimed for the purpose of providing a more efficient location service

system.

Referring to claim 35, the combination of Richton/Iwatsuki/Beauregard/Chen and

well known art disclose the system of claim 2, and further disclose the LBS wireless

communication analysis program analyzes and displays information on the GPS satellite,

wherein the information on the GPS satellite is more than one out of a total number of the GPS

satellites and an identification number of each satellite included in a "Provide Pseudorange

Measurement" message (Figures 2-7, "221", col. 2,lines 40-67, col. 9,lines 50-67).

Response to Arguments

6. Applicant's arguments with respect to claims 1-22 and 24-36 have been considered but

are moot in view of the new ground(s) of rejection.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fred A. Casca whose telephone number is (571) 272-7918. The

examiner can normally be reached on Monday through Friday from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul Harper, can be reached at (571) 272-7605. The fax number for the organization

where this application or proceeding is assigned is (571) 273-8300.

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/VINCENT P. HARPER/

Supervisory Patent Examiner, Art Unit 2617